Other Defense Activities
Office of Nuclear Energy, Science and Technology

Overview

Appropriation Summary by Program

(dollars in thousands)

	FY 2005 Current Appropriation	FY 2006 Original Appropriation	FY 2006 Adjustments	FY 2006 Current Appropriation	FY 2007 Request
Other Defense Activities					
Infrastructure					
Idaho Facilities Management	20,719[a]	17,762[b]	-178[c]	17,584	0[d]
Idaho Sitewide Safeguards and Security	57,662	75,008	-720[e]	74,288	75,949
Total, Infrastructure	78,381	92,770	-898	91,872	75,949
Spent Nuclear Fuel Management	1,488	0	+0	0	0
Program Direction	33,587[f]	31,103[g]	-311[h]	30,792	0[i]
Subtotal, Other Defense Activities	113,456	123,873	-1,209	122,664	75,949
Less Security Charge for Reimbursable Work	-3,003	-3,003	+0	-3,003	-3,003
Total, Other Defense Activities	110,453	120,870	-1,209	119,661	72,946

[a] Excludes $91,434,000 appropriated under Energy Supply and Conservation appropriation, a $167,000 rescission and $10,000,000 from Naval Reactors.
[b] Excludes $82,600,000 originally appropriated under Energy Supply and Conservation appropriation and $13,500,000 from Naval Reactors.
[c] Includes a rescission of $177,620 in accordance with P.L. 109-148, Emergency Supplemental Appropriations to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza, 2006.
[d] Beginning in FY 2007, funding for Idaho Facilities Management is requested under Energy Supply and Conservation appropriation.
[e] Includes a rescission of $720,050 in accordance with P.L. 109-148, Emergency Supplemental Appropriations to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza, 2006.
[f] Excludes $26,218,000 appropriated under Energy Supply and Conservation appropriation and a $271,000 rescission.
[g] Excludes $30,006,000 originally appropriated under Energy Supply and Conservation appropriation.
[h] Includes a rescission of $311,030 in accordance with P.L. 109-148, Emergency Supplemental Appropriations to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza, 2006.
[i] Beginning in FY 2007, funding for Program Direction is requested under Energy Supply and Conservation appropriation.

Preface

The Office of Nuclear Energy, Science and Technology (NE) leads the Government's efforts to develop new nuclear energy generation technologies to meet energy and climate goals, to develop advanced, proliferation-resistant nuclear fuel technologies that maximize energy from nuclear fuel, and to maintain and enhance the national nuclear technology infrastructure. NE serves the present and future energy needs of the Nation by managing the safe operation and maintenance of the DOE critical nuclear infrastructure that provides nuclear technology goods and services.

NE has one program completely funded within the Other Defense Activities appropriation - Idaho Sitewide Safeguards and Security. In FY 2005 and FY 2006, NE has two programs that are partially funded within the Other Defense Activities appropriation - Idaho Facilities Management and Program Direction. Beginning in FY 2007 funds for these programs are solely requested in the Energy Supply and Conservation appropriation.

This Overview will describe Strategic Context, Mission, Benefits, Strategic Goals and Funding by General Goal. These items together put the appropriation in perspective. The Annual Performance Results and Targets, Means and Strategies, and Validation and Verification sections address how the goals will be achieved and how performance will be measured.

Strategic Context

Following publication of the Administration's "National Energy Policy", the Department developed a Strategic Plan that defines its mission, four strategic goals for accomplishing that mission, and seven general goals to support the strategic goals. Each appropriation has developed quantifiable goals to support the general goals. Thus, the "goal cascade" is the following:

Department Mission → Strategic Goal (25 yrs) → General Goal (10-15 yrs) → Program Goal (GPRA Unit) (10-15 yrs)

To provide a concrete link between budget, performance, and reporting, the Department developed a "GPRA[a] unit" concept. Within DOE, a GPRA unit defines a major activity or group of activities that support the core mission and aligns resources with specific goals. Each GPRA unit has completed or will complete a Program Assessment Rating Tool (PART). A unique program goal was developed for each GPRA unit. A numbering scheme has been established for tracking performance and reporting.[b]

The goal cascade accomplishes two things. First, it ties major activities for each program to successive goals and, ultimately, to DOE's mission. This helps ensure the Department focuses its resources on fulfilling its mission. Second, the cascade allows DOE to track progress against quantifiable goals and to tie resources to each goal at any level in the cascade. Thus, the cascade facilitates the integration of budget and performance information in support of the GPRA and the President's Management Agenda (PMA).

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[a] Government Performance and Results Act of 1993

[b] The numbering scheme uses the following numbering convention: First two digits identify the General Goal (01 through 07); second two digits identify the GPRA Unit; last four digits are reserved for future use.

Mission

One of the missions of the Office of Nuclear Energy, Science and Technology is to safeguard DOE nuclear infrastructure that provides nuclear technology goods and services. NE manages research laboratories and radiological facilities and is the Lead Program Secretarial Officer for the Idaho National Laboratory.

Benefits

NE plans to safeguard the national nuclear infrastructure currently in place to help meet the Nation's energy, environmental, health care, and national security needs. The Idaho Sitewide Safeguards and Security program provides protection of nuclear materials, classified matter, Government property, and other vital assets from unauthorized access, theft, diversion, sabotage, espionage, and other hostile acts that may cause risks to national security, the health and safety of DOE and contractor employees, the public or the environment.

Strategic, General, and Program Goals

The Department's Strategic Plan identifies four strategic goals (one each for defense, energy, science, and environmental aspects of the mission) plus seven general goals that tie to the strategic goals. The Office of Nuclear Energy, Science and Technology supports the following goals:

Energy Strategic Goal: To protect our national and economic security by promoting a diverse supply of reliable, affordable, and environmentally sound energy.

General Goal 4, Energy Security: Improve energy security by developing technologies that foster a diverse supply of reliable, affordable and environmentally sound energy by providing for reliable delivery of energy, guarding against energy emergencies, exploring advanced technologies that make a fundamental improvement in our mix of energy options, and improving energy efficiency.

The programs funded by the Office of Nuclear Energy, Science and Technology within Other Defense Activities appropriation have the following Program Goal which contribute to General Goal 4 in the "goal cascade":

Program Goal 04.17.00.00: Maintain, enhance, and safeguard the Nation's nuclear infrastructure capability - to meet the Nation's energy, environmental, medical research, space exploration, and national security needs.

Contribution to General Goal 4

The Department has the responsibility to maintain and enhance the Nation's nuclear infrastructure currently in place. The Idaho Sitewide Safeguards and Security program supports activities that are required to protect the Department's Idaho complex assets from theft, diversion, sabotage, espionage, unauthorized access, compromise, and other hostile acts which may cause unacceptable adverse impacts on national security, program continuity, the health and safety of employees, the public, or the environment.

Major FY 2005 Achievements

The Office of Nuclear Energy Idaho Design Basis Threat (DBT) Program Management Plan was issued in FY 2005. This plan utilizes the project management aspects of DOE Order 413.1, Program and Project Management Policy, to achieve implementation of the 2003 DBT by the end of FY 2006. A new DBT was issued in October 2004, which requires full implementation by the end of FY 2008. All FY 2005 actions required by the 2003 DBT project management plan that remain consistent with the 2004 DBT were accomplished. A DBT Implementation Plan that addresses both the 2003 and the 2004 DBT was prepared and the final design of the video capture upgrade project, in support of the DBT, at the Materials and Fuels Complex has been completed.

Funding by General and Program Goal

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
General Goal 4, Energy Security			
Program Goal 04.17.00.00, Maintain, enhance, and safeguard the national nuclear infrastructure	78,381	91,872	75,949
Subtotal, General Goal 4 (Other Defense Activities)	78,381	91,872	75,949
All Other			
Program Direction	33,587	30,792	0[a]
Spent Nuclear Fuel Management	1,488	0	0
Less Security Charge for Reimbursable Work	-3,003	-3,003	-3,003
Total, All Other	32,072	27,789	-3,003
Total, General Goal 4, (Other Defense Activities)	110,453	119,661	72,946

[a] Beginning in FY 2007, funding for Program Direction is requested under Energy Supply and Conservation appropriation.

Office of Nuclear Energy, Science and Technology
Funding by Site by Program

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Chicago Operations Office			
Spent Nuclear Fuel Management	1,488	0	0
Idaho National Laboratory			
Idaho Facilities Management	20,719[a]	17,584[b]	0[c]
Idaho Sitewide Safeguards and Security	57,662	74,288	75,949
Total, Idaho National Laboratory	78,381	91,872	75,949
Idaho Operations Office			
Program Direction	33,587	30,792	0[c]
Total, Other Defense Activities[d]	113,456	122,664	75,949

Site Description

Chicago Operations Office

Spent Nuclear Fuel Management

Chicago Operations Office administers a contract with BWXT Service, Inc. for continuing spent nuclear fuel and other related material storage at the BWXT Lynchburg Technology Center.

Idaho National Laboratory

Introduction

The Idaho National Laboratory (INL) is an extensive research and engineering complex that has been the center of nuclear energy research since 1949. It occupies 890 square miles in southeastern Idaho along the western edge of the Snake River Plain, 42 miles northwest of Idaho Falls, Idaho. There are nine primary facilities at the INL as well as administrative, engineering, and research laboratories in Idaho Falls, Idaho. The Office of Nuclear Energy, Science and Technology (NE) is the Lead Program Secretarial Office (LPSO) responsible for the Idaho Operations Office (ID). Beginning in the second quarter of FY 2005, ANL-West became part of INL.

[a] Excludes $91,434,000 appropriated under Energy Supply and Conservation appropriation, a $167,000 rescission, and $10,000,000 from Naval Reactors.
[b] Excludes $81,774,000 appropriated under Energy Supply and Conservation appropriation and $13,365,000 from Naval Reactors.
[c] Beginning in FY 2007, all funding for Idaho Facilities Management and Program Direction are requested under Energy Supply and Conservation appropriation.
[d] Funding totals exclude reduction for security charge for reimbursable work of $3,003,000.

Idaho Sitewide Safeguards and Security

The Idaho Sitewide Safeguards and Security program provides protection of nuclear materials, classified matter, government property, and other vital assets from unauthorized access, theft, diversion, sabotage, espionage, and other hostile acts that may cause risks to national security, the health and safety of DOE and contractor employees, the public or the environment. Program activities include security systems, material control and accountability, information and cyber security, and personnel security. In addition, a protective force is maintained. These activities ensure that the site, personnel, and assets remain safe from potential threats.

Infrastructure

Funding Profile by Subprogram

(dollars in thousands)

	FY 2005 Current Appropriation	FY 2006 Original Appropriation	FY 2006 Adjustments	FY 2006 Current Appropriation	FY 2007 Request
Infrastructure					
Idaho Facilities Management	20,719[a]	17,762[b]	-178[c]	17,584	0[d]
Idaho Sitewide Safeguards and Security	57,662	75,008	-720[e]	74,288	75,949
Total, Infrastructure	78,381	92,770	-898	91,872	75,949

Mission

The mission of the Infrastructure program within the Other Defense Activities appropriation is to safeguard the national nuclear infrastructure against hostile acts that may cause unacceptable adverse impacts on national security; program continuity; or the health and safety of employees, the public, or the environment. The mission also includes consolidating nuclear operations required to produce radioisotope power systems at a single, secure site, thereby enhancing the safety and security of these nuclear materials.

In FY 2005 and FY 2006, the Idaho Facilities Management program was funded in both the Energy Supply and Conservation and the Other Defense Activities appropriations. Beginning in FY 2007, the Idaho Facilities Management program is requested only under the Energy Supply and Conservation appropriation. Therefore, the FY 2007 funding tables, performance measures, and budget justification address only the Idaho Sitewide Safeguards and Security program

Benefits

The Infrastructure program supports the Department's Defense Strategic Goal to protect our national security by protecting nuclear materials, classified matter, Government property, and other vital assets from unauthorized access, theft, diversion, sabotage, espionage, and other hostile acts that may cause risks to national security, the health and safety of DOE and contractor employees, the public or the environment.

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[a] Excludes $91,434,000 appropriated under Energy Supply and Conservation appropriation, a $167,000 rescission and $10,000,000 from Naval Reactors.

[b] Excludes $82,600,000 originally appropriated under Energy Supply and Conservation appropriation; $13,500,000 from Naval Reactors.

[c] Includes a rescission of $177,620 in accordance with P.L. 109-148, Emergency Supplemental Appropriations to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza, 2006.

[d] Beginning in FY 2007, all funding for Idaho Facilities Management is requested under Energy Supply and Conservation appropriation.

[e] Includes a rescission of $720,050 in accordance with P.L. 109-148, Emergency Supplemental Appropriations to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza, 2006.

Strategic and Program Goals

The Department's Strategic Plan identifies four strategic goals (one each for defense, energy, science, and environmental aspects of the mission) plus seven general goals that tie to the strategic goals. The Infrastructure program supports the following goal:

Energy Strategic Goal

General Goal 4, Energy Security: Improve energy security by developing technologies that foster a diverse supply of reliable, affordable and environmentally sound energy by providing for reliable delivery of energy, guarding against energy emergencies, exploring advanced technologies that make a fundamental improvement in our mix of energy options, and improving energy efficiency.

The Infrastructure program has one program goal that contributes to General Goal 4 in the "goal cascade":

Program Goal 04.17.00.00: Maintain, enhance, and safeguard the Nation's nuclear infrastructure capability - to meet the Nation's energy, environmental, medical research, space exploration, and national security needs.

Contribution to Program Goal 04.17.00.00 (Maintain, enhance, and safeguard the Nation's nuclear infrastructure capability)

The Department has the responsibility to maintain and enhance the Nation's nuclear infrastructure currently in place. The Idaho Sitewide Safeguards and Security program supports activities that are required to protect the Department's Idaho complex assets from theft, diversion, sabotage, espionage, unauthorized access, compromise, and other hostile acts which may cause unacceptable adverse impacts on national security, program continuity, the health and safety of employees, the public, or the environment.

Funding by General and Program Goal

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
General Goal 4, Energy Security Program Goal 04.17.00.00: Maintain, enhance, and safeguard the Nation's nuclear infrastructure capability			
Idaho Facilities Management	20,719[a]	17,584[b]	0[c]
Idaho Sitewide Safeguards and Security	57,662	74,288	75,949
Total, General Goal 4 (Infrastructure)	78,381	91,872	75,949

[a] Excludes $91,434,000 appropriated under Energy Supply and Conservation appropriation, a $167,000 rescission and $10,000,000 from Naval Reactors.
[b] Excludes $81,774,000 appropriated under Energy Supply and Conservation and $13,365,000 from Naval Reactors.
[c] Beginning in FY 2007, all funding for Idaho Facilities Management is requested under Energy Supply and Conservation appropriation.

Annual Performance Results and Targets

FY 2002 Results	FY 2003 Results	FY 2004 Results	FY 2005 Results	FY 2006 Targets	FY 2007 Targets
Program Goal 04.17.00.00 (Maintain, enhance, and safeguard the Nation's nuclear infrastructure capability))					
Infrastructure					
Idaho Sitewide Safeguards and Security					
During FY 2002, no national security incidents occurred within NE Idaho sitewide cyber systems and security areas that caused unacceptable risk or damage to the Department. (MET TARGET)	Completed the Idaho Integrated Safeguards and Security Plan to assure appropriate protective measures are taken commensurate with the risks and consequences for both the laboratories on the Idaho site. (MET TARGET)	Issued the Design Basis Threat Implementation Plan for the Idaho National Engineering and Environmental Laboratory and Argonne National Laboratory-West. (MET TARGET)	Completed FY 2005 actions at the Idaho Site required to implement the May 2003 Design Basis Threat (DBT) as defined in the Program Management Plan that remain consistent with the requirements of the October 2004 DBT. (MET TARGET)	Install all physical protective system upgrades for the May 2003 Design Basis Threat (DBT) as outlined in the approved DBT Program Management Plan that remain consistent with the requirements of the 2005 DBT.	TBD

Means and Strategies

NE will use various means and strategies to achieve its program goals. However, various external factors may impact the ability to achieve these goals. NE also performs collaborative activities to help meet its goals.

The Department will implement the following means:

- Continue planning activities to implement the 2005 Design Basis Threat (DBT) Policy to ensure appropriate protective measures are taken commensurate with risk and consequence.

The Department will implement the following strategies:

- Provide physical protection and maintain operational security systems. Implement personnel identity verification and diskless workstation systems and conduct semi-annual and annual program reviews.

The following external factors could affect NE's ability to achieve its strategic goal:

- Idaho Sitewide Safeguards and Security Key External Factors: Annual review of the Design Basis Threat (DBT) policy, which is based on current intelligence information and threat assessment, could result in significant changes in DBT requirements. This could affect NE's ability to achieve goals on schedule. In addition, significant change in National Security Condition (SECON) level in response to a national security event would require re-prioritization of resources that could impact DBT implementation schedule. Finally, acquisition and testing of developmental high technology security systems have the potential to reduce the number of protective forces personnel, however, these systems have not been tested in a DOE laboratory environment.

Validation and Verification

To validate and verify program performance, NE will conduct various internal and external reviews and audits. NE's programmatic activities are subject to continuing review by the Congress, the General Accountability Office, the Department's Inspector General, the Nuclear Regulatory Commission, the U.S. Environmental Protection Agency, state environmental and health agencies, the Defense Nuclear Facilities Safety Board, and the Department's Office of Engineering and Construction Management (including DOE Real Property Management Order). In addition, NE provides continual management and oversight of its vital field infrastructure programs. Periodic internal and external program reviews evaluate progress against established plans. These reviews provide an opportunity to verify and validate performance. Monthly, quarterly, semi-annual and annual reviews, consistent with program management plans, are held to ensure technical progress, cost and schedule adherence, and responsiveness to program requirements.

NERAC subcommittees evaluate progress of NE's research and development programs. NERAC similarly reviews specific program plans as they are being formulated. In early FY 2004, NERAC established a Subcommittee on Evaluations. The full NERAC and its subcommittees have provided independent evaluations in the past, but these evaluations never comprehensively covered the entire nuclear energy program. The new Subcommittee engages appropriate experts to monitor, on a continual basis designated NE programs and evaluate the progress of these programs against (a) direction and guidance provided by the full NERAC and (b) program plans and performance measures developed by

the program under evaluation. This Subcommittee provides arm's length, independent assessments that are critical to the evaluation of NE programs.

Idaho Facilities Management

Funding Schedule by Activity

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Idaho Facilities Management			
INL Operations and Infrastructure	20,719	17,584	0
Total, Idaho Facilities Management	20,719[a]	17,584[b]	0[c]

Description

The Idaho National laboratory (INL) is a multi-program national laboratory that pursues a wide range of nuclear power research and development and other national energy security activities. The purpose of the Idaho Facilities Management (IFM) Program is to ensure that the infrastructure required to support these efforts is maintained and operated to meet programmatic requirements and in compliance environment, safety and health rules and regulations.

The IFM Program manages and operates the three main engineering and research campuses at the INL: (1) the Reactor Technology Center (RTC) at the site, a 890 square mile reservation west of Idaho Falls, (2) the Materials and Fuels Complex (MFC) at the site, and (3) the Science and Technology Complex (STC) in Idaho Falls. As INL landlord, the IFM Program also manages and operates the Central Facilities Area (CFA) at the site and various sitewide infrastructure systems and facilities, such as electrical utility distribution.

The STC, CFA and sitewide infrastructure systems and facilities come under Sitewide Infrastructure within the IFM Program. The funding above is for Sitewide Infrastructure only. In FY 2005 and FY 2006, the Sitewide Infrastructure part of the IFM program was funded in the Other Defense Activities appropriations. Beginning in FY 2007, all of the Idaho Facilities Management Program is requested under the Energy Supply and Conservation appropriation.

Benefits

The IFM program supports "National Energy Policy" goals by maintaining and operating INL basic infrastructure that is required to support facilities dedicated to advanced nuclear energy technology research and many other Federal government activities. Additional activities include managing special nuclear materials contained in these facilities and the disposition of DOE legacy waste materials under NE ownership.

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[a] Excludes $91,434,000 appropriated under Energy Supply appropriation, a $167,000 rescission and $10,000,000 from Naval Reactors.

[b] Excludes $81,774,000 appropriated under Energy Supply and Conservation appropriation and $13,365,000 from Naval Reactors.

[c] Beginning in FY 2007, funding for Idaho Facilities Management is requested under Energy Supply and Conservation appropriation.

NE has developed an INL Ten Year Site Plan (TYSP) that establishes the annual budget requirements for the IFM Program, provides a mission needs analysis of facilities and infrastructure, and identifies the maintenance and recapitalization investments needed at the site to support projected missions such as the Advanced Fuel Cycle Initiative, the Generation IV Nuclear Energy Systems Initiative, a range of national security technology programs, and the Idaho Cleanup Project (ICP) under the Office of Environmental Management. The plan meets the requirements of DOE Order 430.1B, *Real Property Asset Management (RPAM).*

Detailed Justification

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
INL Operations and Infrastructure	**20,719**	**17,584**	**0**
▪ **Base Operations**	**12,030**	**12,599**	**0**

Sitewide Infrastructure Base Operations maintains the STC, the CFA, and the INL common-use facilities, utilities, equipment, and land. The CFA consists of 72 buildings and 60 major support structures. The STC includes 30 DOE owned and leased buildings consisting of office space and extensive laboratory facilities. The Sitewide Infrastructure outside NE campuses and the ICP work complexes consists of 34 buildings and 35 major utility systems and structures.

▪ **Routine Maintenance and Repair**	**876**	**674**	**0**

The goal of this program is to fund routine maintenance and repair within the target industry range of 2% to 4% of Replacement Plant Value (RPV). The use of this industry benchmark was recommended by the National Research Council's Congressionally-sponsored 1998 study, S*tewardship of Federal Facilities.*

▪ **General Plant Projects (GPP)**	**5,412**	**1,244**	**0**

In FY 2005 and FY 2006, GPPs for Sitewide Infrastructure support recapitalization of the INL in accordance with DOE Order 430.1B, *Real Property Asset Management* and the INL TYSP.

▪ **Capital Equipment (CE)**	**2,401**	**3,067**	**0**

In FY 2005 and FY 2006, equipment purchases for Sitewide Infrastructure include such things as shop and miscellaneous maintenance equipment, vehicles and heavy equipment, and laboratory equipment. This funding primarily provides replacements for aged, deteriorated equipment and procurement of new equipment to meet emerging requirements.

Total, Idaho Facilities Management	**20,719**[a]	**17,584**[b]	**0**[c]

[a] Excludes $91,434,000 appropriated under Energy Supply appropriation, a $167,000 rescission and $10,000,000 from Naval Reactors.

[b] Excludes $81,774,000 appropriated under Energy Supply and Conservation appropriation and $13,365,000 from Naval Reactors.

[c] Beginning in FY 2007, funding for Idaho Facilities Management is requested under Energy Supply and Conservation appropriation.

Explanation of Funding Changes

	FY 2007 vs. FY 2006 ($000)
INL Operations and Infrastructure	
▪ **Base Operations**	
The decrease of $12,599,000 reflects the request for Sitewide base operations activities being requested in the Energy Supply and Conservation appropriation beginning in FY 2007	-12,599
▪ **Routine Maintenance and Repair**	
The decrease of $674,000 reflects the request for Sitewide routine maintenance and repair activities being requested in the Energy Supply and Conservation appropriation beginning in FY 2007	-674
▪ **General Plant Projects (GPP)**	
The decrease of $1,244,000 reflects the request for Sitewide GPP activities being requested in the Energy Supply and Conservation appropriation beginning in FY 2007	-1,244
▪ **Capital Equipment**	
The decrease of $3,067,000 reflects the request for Sitewide capital equipment activities being requested in the Energy Supply and Conservation appropriation beginning in FY 2007	-3,067
Total, INL Operations	**-17,584**
Total Funding Change, Idaho Facilities Management	**-17,584**

Capital Operating Expenses and Construction Summary

Capital Operating Expenses

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Capital Equipment	2,401	3,067	0
General Plant Projects	5,412	1,244	0
Total, Capital Operating Expenses	7,813	4,311	0[a]

[a] Beginning in FY 2007, funding for Idaho Facilities Management will be requested only under the Energy Supply and Conservation appropriation.

Idaho Sitewide Safeguards and Security

Funding Schedule by Activity

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Idaho Sitewide Safeguards and Security			
Idaho Operations Office[a]	57,662	74,288	75,949
Less Security Charge for Reimbursable Work	-3,003	-3,003	-3,003
Total, Idaho Sitewide Safeguards and Security	54,659	71,285	72,946

Funding Schedule by Category

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Idaho Operations Office			
Protective Forces	33,937	42,665	42,500
Security Systems	8,448	15,961	12,092
Transportation	81	0	0
Information Security	2,290	2,157	2,226
Personnel Security	1,833	1,919	2,398
Material Control & Accountability	3,592	4,053	4,901
Program Management	2,369	2,138	2,232
Cyber Security	5,112	5,395	9,600
Total, Idaho Operations Office	57,662	74,288	75,949

Description

The mission of the Idaho Sitewide Safeguards and Security (S&S) program is to protect DOE interests from theft, diversion, sabotage, espionage, unauthorized access, compromise, and other hostile acts that may cause unacceptable adverse impacts on national security; program continuity; or the health and safety of employees, the public, or the environment.

[a] Program levels reflect Work for Others (WFO) before the bottom line reduction to the NE appropriation for a "Security Charge for Reimbursable Work." This offset is displayed above by fiscal year. The new budget authority, as well as the offsetting collections (such as when other agencies are using the facility), for the WFO portion of the S&S budget is included in Departmental Administration's Cost of Work for Others program, which is managed by the Department's Office of Chief Financial Officer.

Benefits

This program is designed to support DOE's Defense Strategic Goal to protect our national security. The Idaho Sitewide Safeguards and Security program provides protection of nuclear materials, classified matter, Government property, and other vital assets from unauthorized access, theft, diversion, sabotage, espionage, and other hostile acts that may cause risks to national security, the health and safety of DOE and contractor employees, the public or the environment.

DOE will fully implement the 2003 Design Basis Threat (DBT) in FY 2006 by completing physical upgrades and reducing Category I facilities at INL to two co-located Category I facilities protected by a single Perimeter Intrusion Detection and Assessment System (PIDAS). Implementation is in accordance with the approved resource-loaded Idaho Site DBT Implementation Plan.

DOE will continue planning activities toward implementation of the 2005 DBT policy requirements using a risk-informed approach to physical upgrades. Both the 2004 and 2005 DBT policy requirements increased the strength of the postulated adversarial threat over the 2003 DBT; although detailed vulnerability assessments have not yet been completed, significant security system physical upgrades are expected. DOE's Office of Independent Oversight and Performance Assurance conducted a site assistance visit at Idaho to identify opportunities to increase security in a more cost effective manner through better integration of highly advanced security technology with site security operations. Pending the completion of vulnerability assessments, which will guide protection strategy, DOE believes that early investment in improved positions for defending forces, more capable detection systems, and technological deterrent devices at target locations will result in cost avoidance over the lifetime by relying more on technology and tactics than additional protective force members to counter the revised threat.

DOE will also implement Federal Information Processing Standard (FIPS) 201, entitled *Personal Identity Verification of Federal Employees and Contractors.* FIPS 201 was developed to satisfy the requirements of Homeland Security Presidential Directive/HSPD-12. The new standard requires improving identity and authentication of Federal employees and contractors accessing Federal facilities and information systems.

DOE would like to begin the transition to a diskless classified computing environment in FY 2007. This initiative would be funded by user programs.

Detailed Justification

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Idaho Operations Office	**57,662**	**74,288**	**75,949**
▪ **Protective Force**	**33,937**	**42,665**	**42,500**

Physical Protection Protective Forces provides for security guards or other specialized personnel and equipment, training, and management needed to effectively carry out the protection tasks during normal and security emergency conditions.

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
▪ **Physical Security Systems**	**8,448**	**15,961**	**12,092**

Physical Security Protection Systems provides for equipment to protect vital security interests and Government property per the local threat, including performance testing, intrusion detection and assessment, fences, barriers, secure storage, lighting, sensors, entry/access control devices, locks, explosives detection, and vital components and tamper-safe monitoring.

In FY 2006, NE will initiate a Technology Deployment R&D activity with the Office of Security and Safety Performance Assurance to test new security technologies for eventual deployment in the DOE complex to meet the DBT policy requirements.

In FY 2007, NE will:

- maintain operational physical security systems to include barriers, lighting, sensors, etc.
- implement Federal Information Processing Standard (FIPS 201) by installing card readers that will incorporate the new technology for access compatibility with the new badging technology.
- continue planning activities associated with implementation of the 2005 DBT initiated in FY 2006 at the Idaho site. Specific activities include design and initiate installation of security protection systems to include barriers, lighting, and sensors.

▪ **Transportation**	**81**	**0**	**0**

Transportation provides for all security-related transportation for intra-site transfers of special nuclear materials (including safe havens), weapons, and other classified material that is not funded through the National Nuclear Security Administration's Office of Transportation Safeguards (OTS). The safeguards and security program pays for cost of protection and secure movement. Transportation activities are included in Material Control and Accountability (MC&A) beginning in FY 2006.

▪ **Information Security**	**2,290**	**2,157**	**2,226**

Information Security ensures that classified and sensitive unclassified matter is adequately protected, including export controls, classified matter protection and control, technical surveillance countermeasures, and operations security.

▪ **Personnel Security**	**1,833**	**1,919**	**2,398**

Personnel Security includes clearance program, adjudication, security awareness and education, visit control, Personnel Security Assurance Program, psychological/medical assessments, and administrative review costs. Security Investigations (SI) activities performed by the Federal Bureau of Investigation (FBI) and the Office of Personnel Management (OPM)-associated access authorizations are funded by the Office of Security and are not requested/displayed in NE's budget.

In FY 2007, NE will:

- maintain the Human Reliability Program

(dollars in thousands)

FY 2005	FY 2006	FY 2007

- implement the Federal Information Processing Standard (FIPS 201), by replacing personnel security badges to implement the smart card technology.

- **Material Control and Accountability**..... **3,592** **4,053** **4,901**

  Material Control and Accountability (MC&A) provides for the protection of special nuclear materials (SNM), nuclear weapons, test devices, and weapons components and parts by determining and documenting the amounts of nuclear materials in packaged items. The cost of activities such as MC&A training, proper measurement of materials, and performing a physical inventory are included in the budgets of those programs responsible for processing or storing SNM and nuclear weapons components and parts, and are not included here.

- **Program Management**..... **2,369** **2,138** **2,232**

  Program Management includes policy oversight and development and updating of security plans, assessments, and approvals to determine if assets are at risk. Also included are contractor management and administration, planning, and integration of security activities into facility operations.

- **Cyber Security** **5,112** **5,395** **9,600**

  Cyber Security ensures that sensitive and classified information that is electronically processed, transmitted, or stored is properly identified and protected. The Cyber Security activity ensures that electronic systems are appropriately marked and protected; automated information and protection systems are tested; Communications Security (COMSEC) and Telecommunications Electronics Material Protected from Emanating Spurious Transmissions (TEMPEST) measures are in place; and an appropriate level of infrastructure reliability and integrity is maintained.

  In FY 2007, NE will:

  - implement the Federal Information Processing Standard (FIPS 201). Specific activities include card readers and biometric readers to be attached to each unclassified computer system and special hardware for around 2,000 registered remote access users.
  - NE will also implement hardware and software for a new system to implement Certification Authority Capability.

Total, Idaho Sitewide Safeguards and Security..... **57,662** **74,288** **75,949**

Explanation of Funding Changes

	FY 2007 vs. FY 2006 ($000)
Idaho Sitewide Safeguards and Security	
▪ **Protective Forces** The decrease of $165,000 reflects reduced additional protective force personnel and armor to support the implementation of the 2005 DBT	-165
▪ **Physical Security Systems** The decrease of $3,869,000 reflects reduced implementation of 2005 DBT such as: installing advanced physical security systems, such as Remote Operated Weapons Systems (ROWS); and completing design and initiating installation of security protection systems to include barriers, lighting, and sensor at the MFC	-3,869
▪ **Information Security** The increase of $69,000 is due to increased declassification/classification and information protection activities	+69
▪ **Personnel Security** The increase of $479,000 will initiate implementation of the Federal Information Processing Standard (FIPS 201) by replacing personnel security badges to implement the smart card technology	+479
▪ **Material Control & Accountability** The increase of $848,000 reflects purchase of new system upgrades including replacement of equipment that have exceeded their design life	+848
▪ **Program Management** The increase of $94,000 support additional professional training and development	+94
▪ **Cyber Security** The increase of $4,205,000 supports implementation for the Federal Information Processing Standard (FIPS 201) such as hardware including card readers and biometric readers to be attached to each unclassified computer system and special hardware for around 2,000 registered remote access users. Additionally, hardware, software, and personnel are necessary to maintain and administer a Certification Authority Capability	+4,205
Total Funding Change, Idaho Sitewide Safeguards and Security	**+1,661**

Capital Operating Expenses

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
General Plant Project	0	0	1,200
Capital Equipment	389	446	1,717
Total, Capital Operating Expenses	389	446	2,917

Program Direction

Funding Profile by Category

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Idaho Operations Office			
Salaries and Benefits	24,437	23,792	0
Travel	1,000	975	0
Support Services	870	847	0
Other Related Expenses	7,280	5,178	0
Total, Idaho Operations Office	33,587	30,792	0[a]
Full Time Equivalents	203	197	0[a]
Total Program Direction			
Salaries and Benefits	24,437	23,792	0
Travel	1,000	975	0
Support Services	870	847	0
Other Related Expenses	7,280	5,178	0
Total, Program Direction	33,587	30,792	0 [a]
Total, Full Time Equivalents	203[b]	197	0 [a]

Mission

Program Direction provides the Federal staffing resources and associated costs required to provide overall direction and execution of the Office of Nuclear Energy, Science and Technology (NE). NE promotes secure, competitive, and environmentally responsible nuclear technologies to serve the present and future energy needs of the country. NE carries out this mission in several ways. As the central organization with the Federal Government's core expertise in nuclear technology, NE directs the Nation's investment in nuclear science and technology by sponsoring research at the national laboratories, U.S. universities, and private industry. Through its support of innovative, higher risk science and by helping to preserve the national research and development infrastructure, NE works to advance the responsible use of nuclear technology. NE also manages the safe operation and maintenance of critical nuclear infrastructure and provides nuclear technology goods and services to industry and government.

NE is the Lead Program Secretarial Officer (LPSO) of the Idaho site. NE Headquarters and the Idaho Operations Office reorganized in January 2005 to more effectively support the new nuclear energy missions and prepare for the oversight and management of the new contracts for the operation of the Idaho site. This new structure will carry out all programmatic, project, and landlord responsibilities assigned to NE now and in the future, both as LPSO and Contracting Officer for DOE's operations in Idaho, and as responsible PSO for programs, projects, facilities, and operations at other DOE sites. In

[a] Beginning in FY 2007, funding for Idaho Operations Office is requested under Energy Supply and Conservation.
[b] This number represents actual FY 2005 FTE usage.

FY 2005 and FY 2006, the program direction account for the Idaho Operations Office was funded from the Other Defense Activities appropriation. Beginning in FY 2007, funding for Idaho Operations Office is requested under Energy Supply and Conservation appropriation.

As stated in the Departmental Strategic Plan, DOE's Strategic and General Goals will be accomplished not only through the efforts of the major program offices in the Department but with additional effort from offices which support the programs in carrying out the mission. The Office of Nuclear Energy, Science and Technology performs critical functions which directly support the mission of the Department. These functions include: maintain, enhance, and safeguard the Nation's nuclear infrastructure capability - to meet the Nation's energy, environmental, medical research, space exploration, and national security needs.

Detailed Justification

(dollars in thousands)

	FY 2005	FY 2006	FY 2007
Salaries and Benefits	**24,437**	**23,792**	**0**

The Federal Staff monitors and evaluates LPSO activities at Idaho Operations Office and the INL. The staff includes scientific, engineering, and technical personnel as well as program support personnel in the areas of budget, finance, general administration, procurement, information resource management, policy review and coordination, infrastructure management, construction management, labor relations, personnel and human resources management, and legal support. Idaho Operations Office currently has a staff of 203 associated with NE programs.

Travel	**1,000**	**975**	**0**

Travel includes funding for transportation of Idaho personnel associated with NE programs, their per diem allowances while in authorized travel status, and other expenses incidental to travel.

Support Services	**870**	**847**	**0**

Support Services includes funding for technical and management support services provided to Idaho Operations Office employees associated with NE programs.

Other Related Expenses	**7,280**	**5,178**	**0**

Other Related Expenses includes funding at Idaho for the acquisition of computer hardware and software, telecommunications, mail services, office supplies, subscriptions, vehicle usage, printing, ergonomic furniture, rent and utilities.

Total, Program Direction	**33,587**	**30,792**	**0** [a]

[a] Beginning in FY 2007, funding for Idaho Operating Office is requested under Energy Supply and Conservation.

Explanation of Funding Changes

	FY 2007 vs. FY 2006 ($000)
Salaries and Benefits	
▪ The decrease of $23,792,000 reflects the transfer of program direction activities from Other Defense Activities to Energy Supply and Conservation	-23,792
Travel	
▪ The decrease of $975,000 reflects the transfer of program direction activities from Other Defense Activities to Energy Supply and Conservation	-975
Support Services	
▪ The decrease of $847,000 reflects the transfer of program direction activities from Other Defense Activities to Energy Supply and Conservation	-847
Other Related Expenses	
▪ The decrease of $5,178,000 reflects the transfer of program direction activities from Other Defense Activities to Energy Supply and Conservation	-5,178
Total Funding Change, Program Direction	**-30,792**

Support Services by Category

(dollars in thousands)

	FY 2005	FY 2006	FY 2007	$ Change	% Change
Technical Support					
Surveys or Reviews of Technical Operations	870	847	0	-847	-100%
Total, Technical Support	870	847	0	-847	-100%
Total, Support Services	870	847	0	-847	-100%

Other Related Expenses by Category

(dollars in thousands)

	FY 2005	FY 2006	FY 2007	$ Change	% Change
Other Related Expenses					
Working Capital Fund	1,284	0	0	0	0%
Operations and Maintenance of Equipment	600	605	0	-605	-100%
Printing and Reproduction	130	125	0	-125	-100%
Training	300	275	0	-275	-100%
Rent and Utilities	900	900	0	-900	-100%
Communications	2,045	1,902	0	-1,902	-100%
Supplies and Materials	65	65	0	-65	-100%
Other Services	1,956	1,306	0	-1,306	-100%
Total, Other Related Expenses	7,280	5,178	0	-5,178	-100%